Harsha Ganugula

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Summary

Software Engineer with 3+ years of experience designing and developing scalable, secure, full-stack applications across enterprise environments. Strong expertise in building RESTful APIs and event-driven microservices using Java (Spring Boot), Python (Django REST Framework), and Apache Kafka. Hands-on experience developing modern user interfaces with React and JavaScript, supporting role-based workflows and real-time features. Proven ability to improve system performance, reliability, and observability through effective use of cloud platforms such as AWS and Microsoft Azure. Solid background in test-driven development, CI/CD automation, and production monitoring using tools like Jenkins, GitHub Actions, and CloudWatch. Known for collaborating closely with cross-functional teams to deliver high-quality, maintainable software that supports critical business processes and scales with user demand.

Technical Skills

- **Languages & Frameworks**: Java (Spring Boot, Spring Security, Spring Messaging), JavaScript (ES6+), Python (Django REST Framework), React.js, Redux, React Hooks, Thymeleaf
- **APIs & Architecture:** RESTful APIs, Event-Driven Microservices, Apache Kafka, WebSocket's, JWT Authentication, Business Rules Engine
- **Data bases**: Postgres SQL, AWS RDS, MySQL, MongoDB
- **Dev Ops & Cloud**'s AWS: (Elastic Beanstalk, Code Pipeline, CloudWatch, Auto Scaling), Microsoft Azure (App Services, Blob Storage), Jenkins, GitHub Actions, CI/CD Pipelines, Load Balancing
- **Testing & Quality**: JUnit, Mockito, PyTest, Jest, Unit Testing, Integration Testing, Test-Driven Development, Embedded Kafka
- **Tools & Collaboration**: Git, Jira, Agile/Scrum, Cross-functional Collaboration, spaCy (NLP for clause classification)

Professional Experience

Software Engineer, BlueCross BlueShield 01/2024–Present | Remote, USA

- Designed and developed secure RESTful APIs using Spring Boot to support enterprise eligibility, document processing, and application workflows, improving service response time by 30%.
- Built and enhanced user-facing modules using React and JavaScript, delivering role-based dashboards and notification interfaces across internal platforms.
- Implemented JWT-based authentication and role-based access control with Spring Security across internal and customer-facing applications.
- Migrated real-time communication from WebSocket's to Apache Kafka, improving system scalability, fault tolerance, and concurrent event processing.
- Developed Kafka producers and consumers for event-driven microservices supporting document uploads and workflow status updates.
- Improved logging, monitoring, and observability using AWS CloudWatch, reducing production incident diagnosis time by 25%.
- Created unit and integration tests using JUnit, Mockito, and Embedded Kafka, achieving 85% test coverage and reducing production incidents by 35%.
- Collaborated with product, QA, UX, security, and DevOps teams through Agile ceremonies, contributing to consistent on-time sprint delivery

Jr. Software Developer, Cisco 06/2021–08/2022 | Bangalore, India

- Developed an enterprise Contract Management System by collaborating with cross-functional teams and following Agile practices, achieving a 98% sprint delivery rate.
- Built responsive user interfaces using Java, Spring Boot, and Thymeleaf, implementing contract upload, approval workflows, and role-based user interactions.
- Designed and optimized PostgreSQL database schemas with indexing and normalization, reducing query latency by 45% and ensuring high data integrity.
- Developed backend REST APIs using Python and Django REST Framework to support document processing and approval workflows at enterprise scale.
- Implemented NLP-based clause extraction and classification using custom-trained spaCy models, achieving 92% accuracy in document analysis.
- Integrated JWT-based authentication, role-based authorization, and encryption standards, reducing security vulnerabilities and meeting internal compliance requirements.
- Developed unit tests using PyTest and JUnit and integrated them into Jenkins CI pipelines, maintaining 90% code coverage and reducing production defects.
- Deployed applications on Microsoft Azure using App Services and CI/CD pipelines, achieving 99.9% uptime and improving deployment speed by 50%

Education

Master of Science in Information System and Technologies 08/2022–05/2024
University of North Texas **Denton, TX, USA**